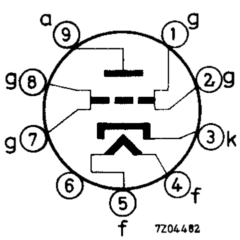
S.Q. TUBE

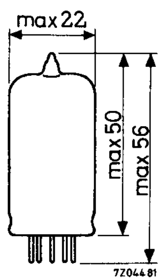
Triode designed for use as grounded grid U.H.F. amplifier for frequencies up to 500 MHz.

QUICK REFERENCE DATA			
Life test	500 hours		
Base	Noval. Gold plated pins		
Heating	Indirect A.C. or D.C.; parallel supply		
Heater voltage	V_f	6.3	V
Heater current	I_f	430	mA
Mutual conductance	S	12	mA/V

DIMENSIONS AND CONNECTIONS Dimensions in mm

Base: Noval





CHARACTERISTICS

Anode voltage	V_a	250	V
Grid voltage	$-V_g$	1.5	V
Anode current	I_a	15	mA
Mutual conductance	S	12	mA/V
Amplification factor	μ	80	

CAPACITANCES

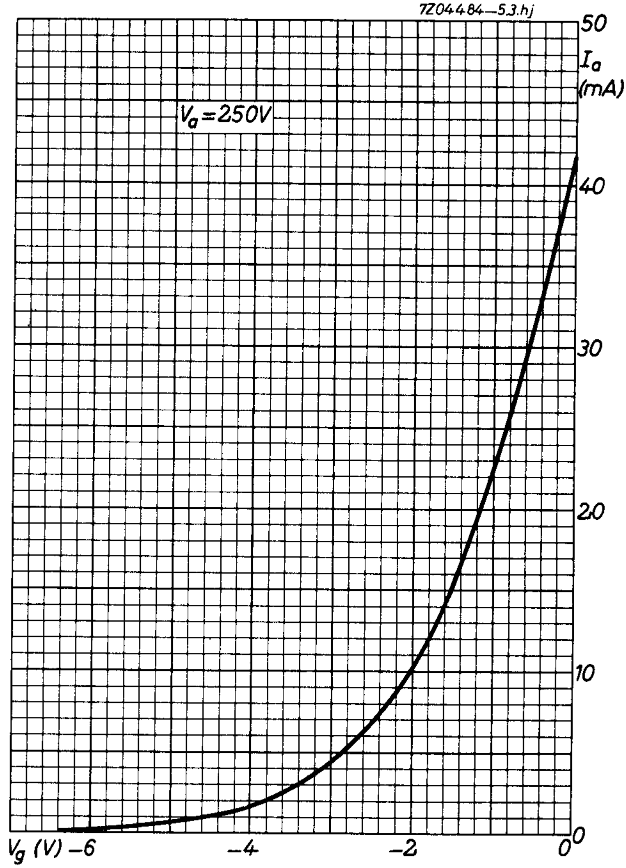
Grid and pin No.6 to cathode and heater	$C_{gp6/kf}$		5.1	pF
Grid, heater and pin No.6 to cathode	$C_{gfp6/k}$		9.3	pF
Anode to cathode	C_{ak}	max.	0.075	pF
Anode to cathode and heater	$C_{a/kf}$	max.	0.08	pF
Anode to grid and pin No.6	$C_{a/gp6}$		3.4	pF
Anode to grid, heater and pin No.6	$C_{a/gfp6}$		3.4	pF
Cathode to heater	C_{kf}	max.	8	pF

LIFE

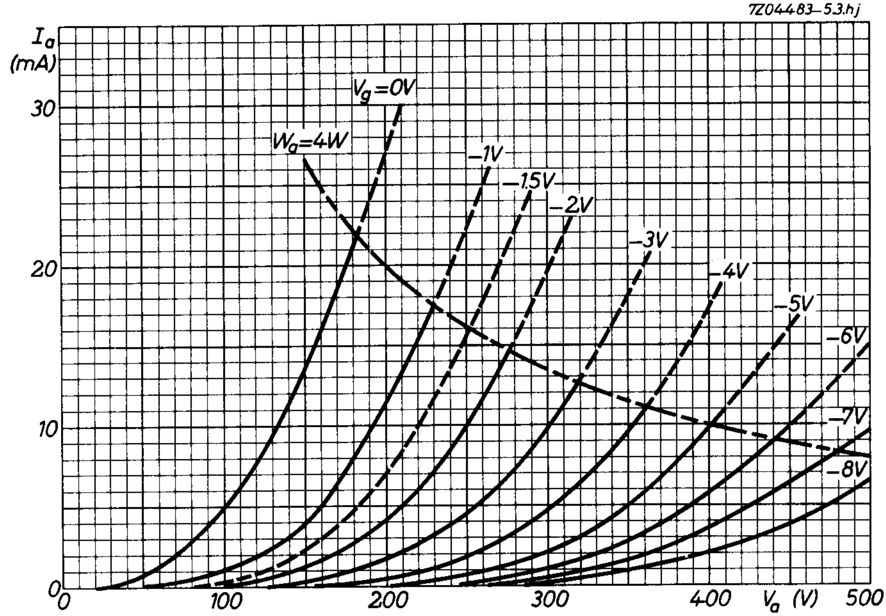
Production samples are tested during 500 hours.

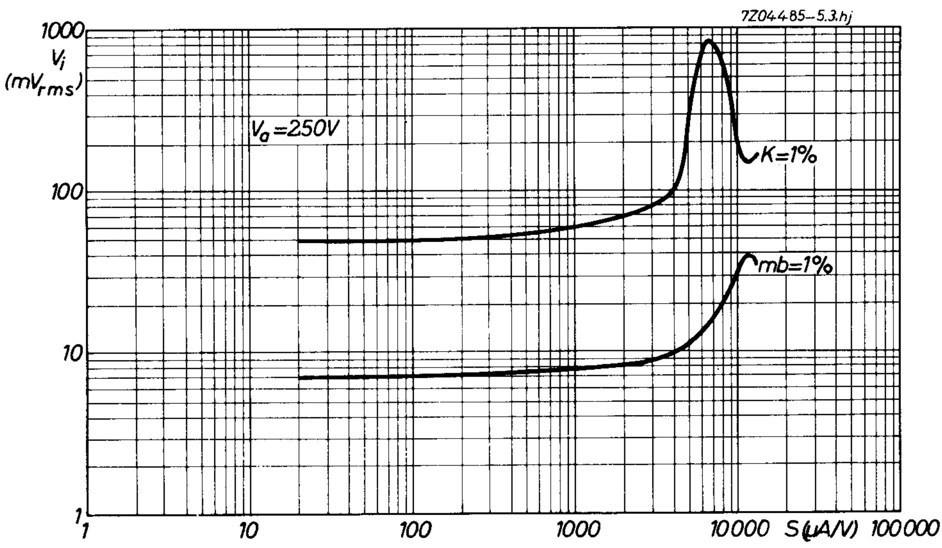
LIMITING VALUES (Design centre rating system)

Anode voltage	V_{a_o}	max.	550	V
	V_a	max.	300	V
Anode dissipation	W_a	max.	4	W
Cathode current	I_k	max.	15	mA
Voltage between cathode and heater	V_{kf}	max.	100	V
Grid resistor	R_g	max.	0.3	MΩ



7Z04484—5.3.hj
50
I_a
(mA)
V_a=250V
40
30
20
10
0
V_g (V) −6
−4
−2
0


7Z04483–5.3.hj
I_a
(mA)
30
20
10
0
V_g=0V
W_a=4W
–1V
–1.5V
–2V
–3V
–4V
–5V
–6V
–7V
–8V
0
100
200
300
400
V_a (V)
500


7Z04485–5.3.hj
1000
V_i
(mV_{rms})
100
10
1
V_a=250V
K=1%
mb=1%
1
10
100
1000
10000
S(μA/V)
100000

PHILIPS

Data handbook

Electronic components and materials

EC80

page	**sheet**	**date**
1	1	1968.12
2	2	1968.12
3	3	1968.12
4	4	1968.12
5	FP	2001.04.13